

Drought Monitoring Technical Committee Update

to the

Arizona Interagency Coordinating Group

November 12, 2019

Nancy J. Selover
Arizona State Climate Office

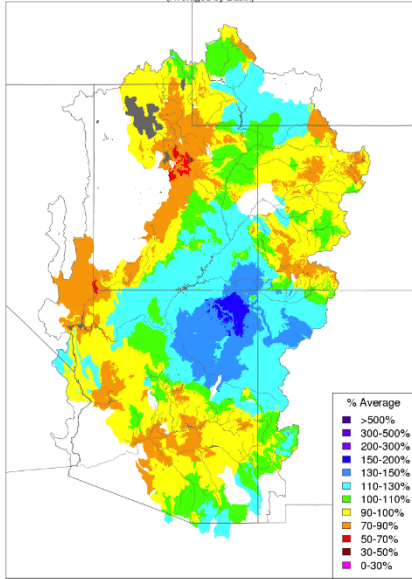
WY Precipitation Comparison Colorado River Basin

WY 2015

WY 2016

WY 2017

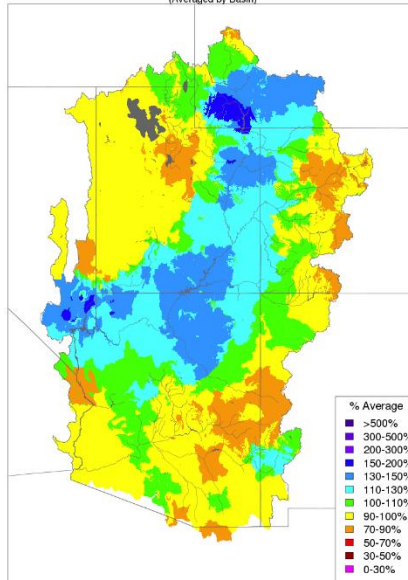
Water Year Precipitation, October 2014 - September 2015
(Averaged by Basin)



Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

WY 2018

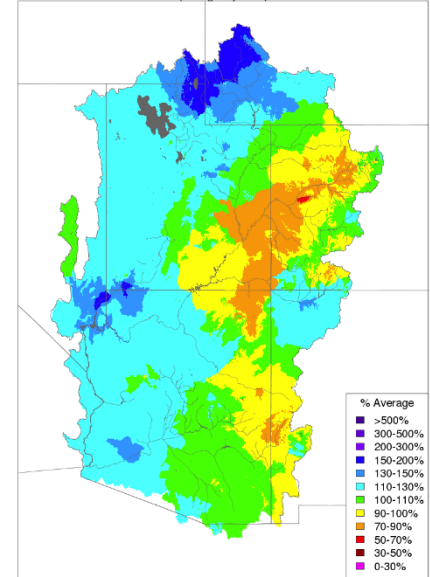
Water Year Precipitation, October 2015 - September 2016
(Averaged by Basin)



Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

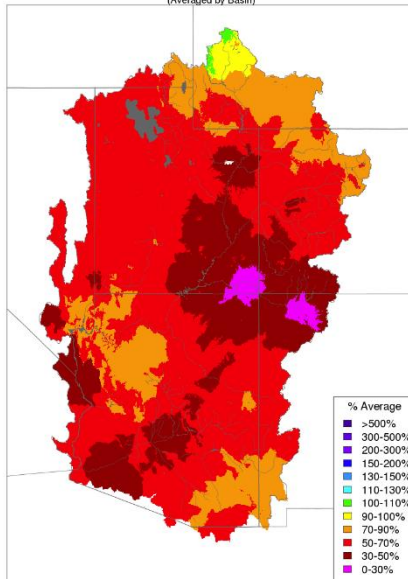
WY 2019

Water Year Precipitation, October 2016 - September 2017
(Averaged by Basin)



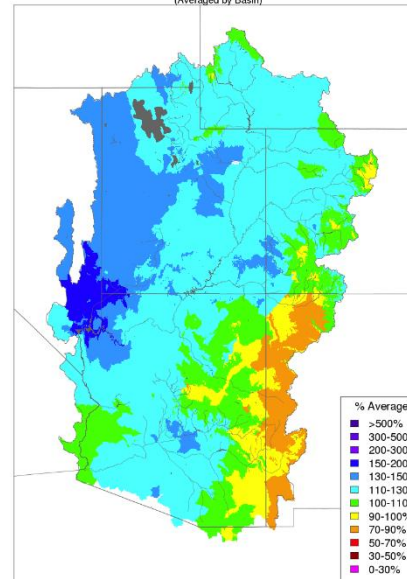
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Water Year Precipitation, October 2017 - September 2018
(Averaged by Basin)



Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Water Year Precipitation, October 2018 - September 2019
(Averaged by Basin)

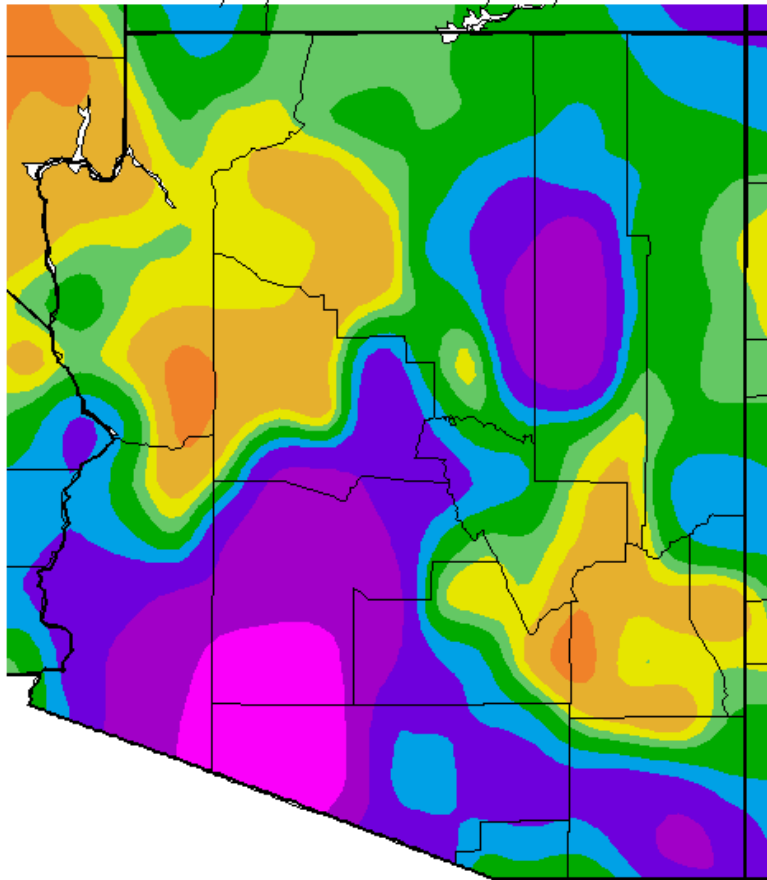


Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Water Year Precipitation Percent of Average

Oct-Dec 2018

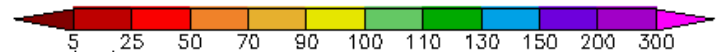
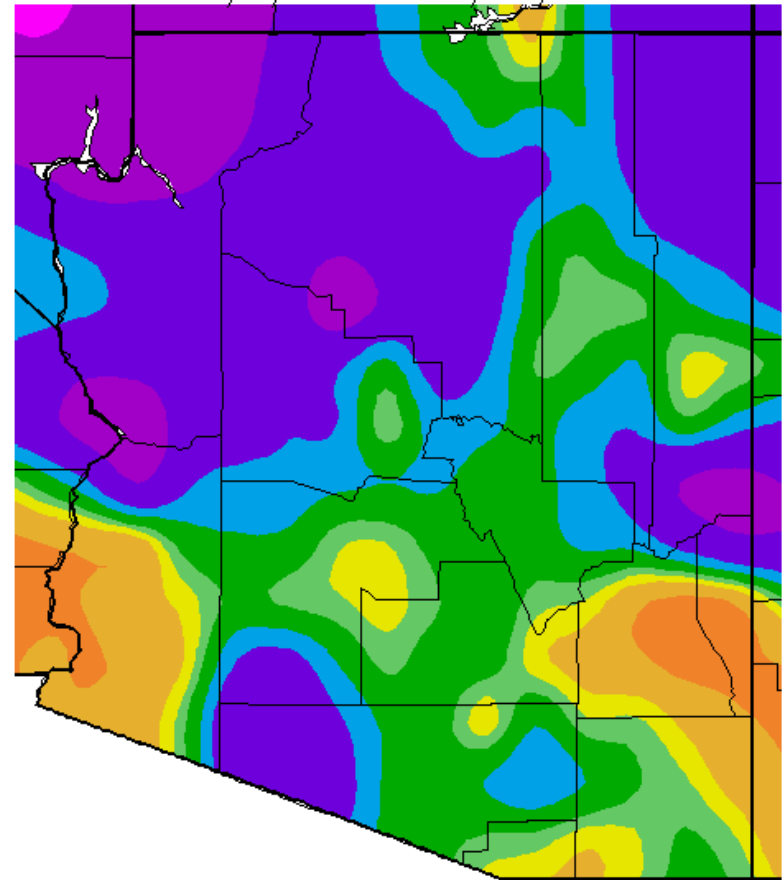
Percent of Average Precipitation (%)
10/1/2018 – 12/31/2018



Generated 1/ 1/2019 at WRCC using provisional data.
NOAA Regional Climate Centers

Jan-Jun 2019

Percent of Average Precipitation (%)
1/1/2019 – 6/29/2019



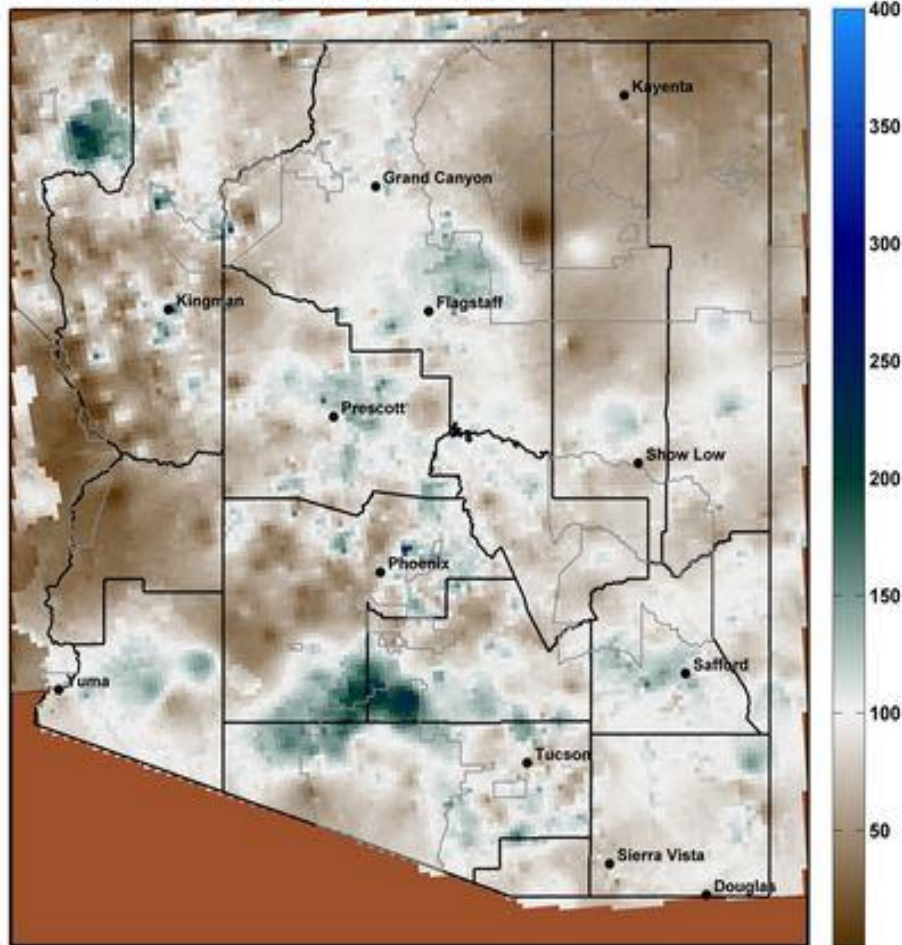
Generated 6/30/2019 at WRCC using provisional data.
NOAA Regional Climate Centers

Monsoon Precipitation Percent of Average

2018

2019

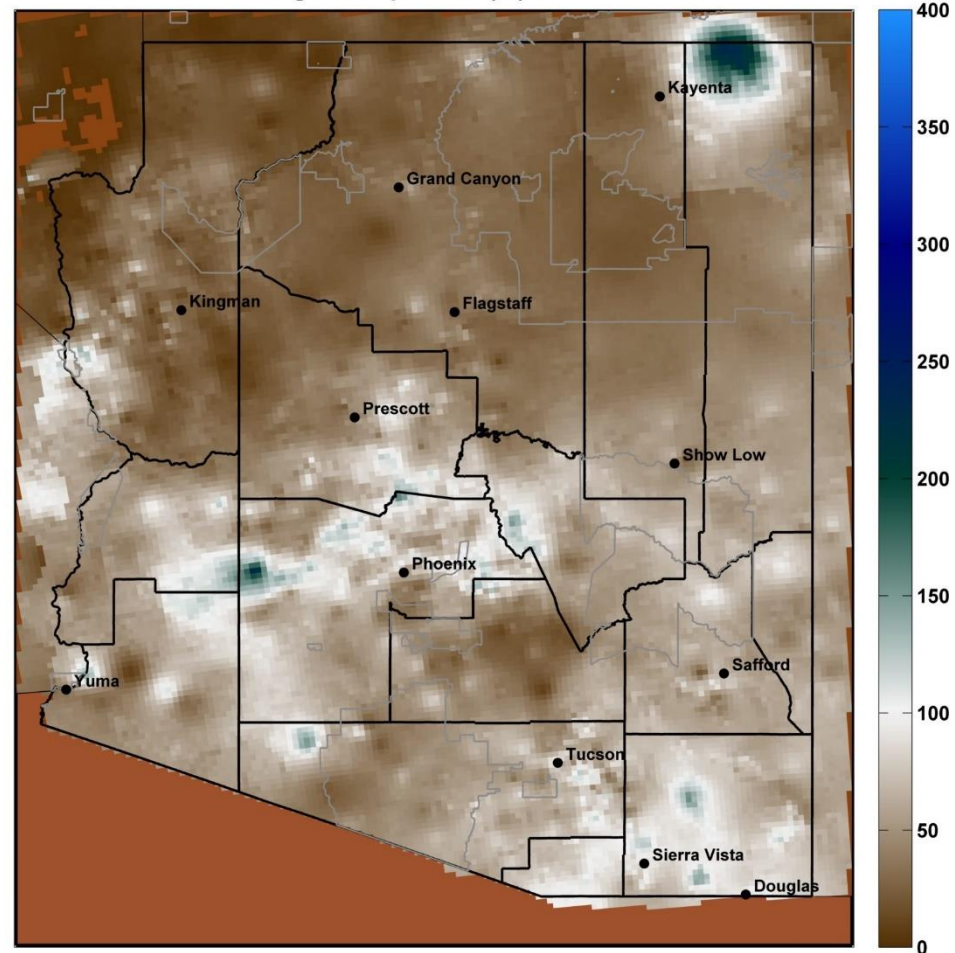
Percent of Average Precipitation (%): 06/15/18 to 09/30/18



Map produced using daily total precipitation estimates from the NOAA National Weather Service Advanced Hydrologic Prediction Service (AHPS). Data information available at <http://water.weather.gov/precip/about.php>. Date created: 01-Oct-2018
University of Arizona - <http://cals.arizona.edu/climate/>



Percent of Average Precipitation (%): 06/15/19 to 09/30/19

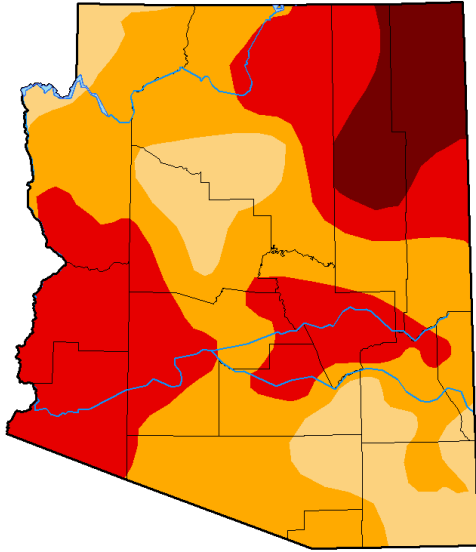


Map produced using daily total precipitation estimates from the NOAA National Weather Service Advanced Hydrologic Prediction Service (AHPS). Data information available at <http://water.weather.gov/precip/about.php>. Date created: 03-Oct-2019
University of Arizona - <http://cals.arizona.edu/climate/>

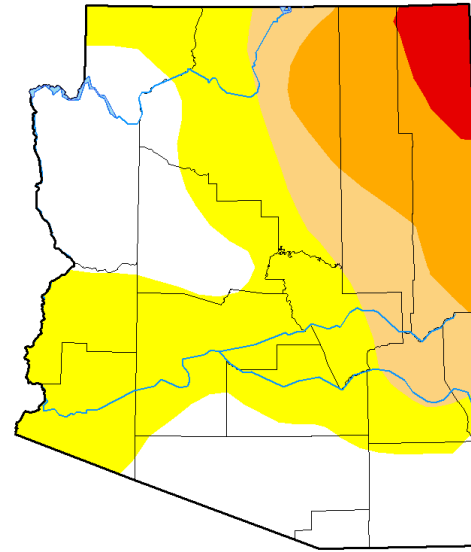


National Drought Monitor Comparison (Short-Term)

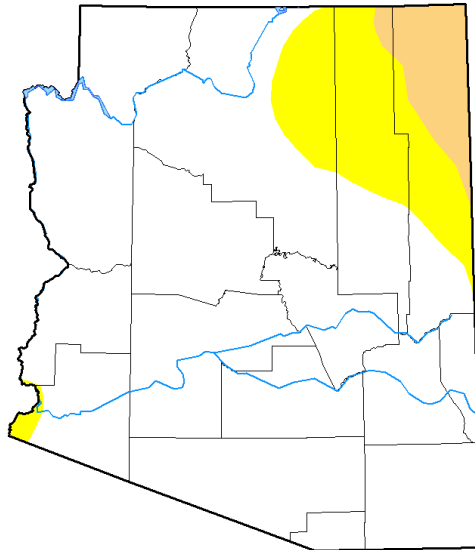
Sep 25, 2018



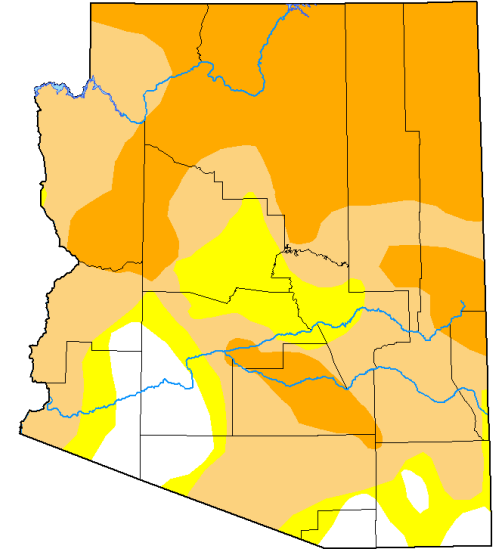
Feb 19, 2019



Apr 30, 2019

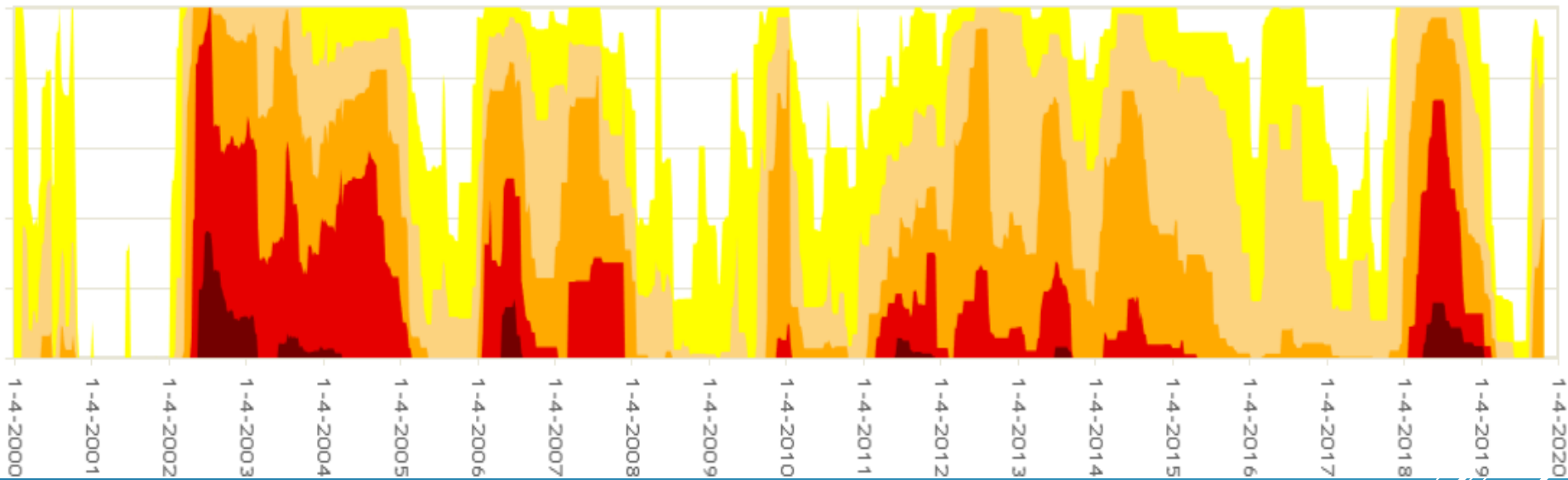


Oct 29, 2019



Drought in Arizona 2000-2019

Arizona Percent Area



Abnormally Dry
Moderate
Drought
Severe Drought
Extreme Drought
Exceptional

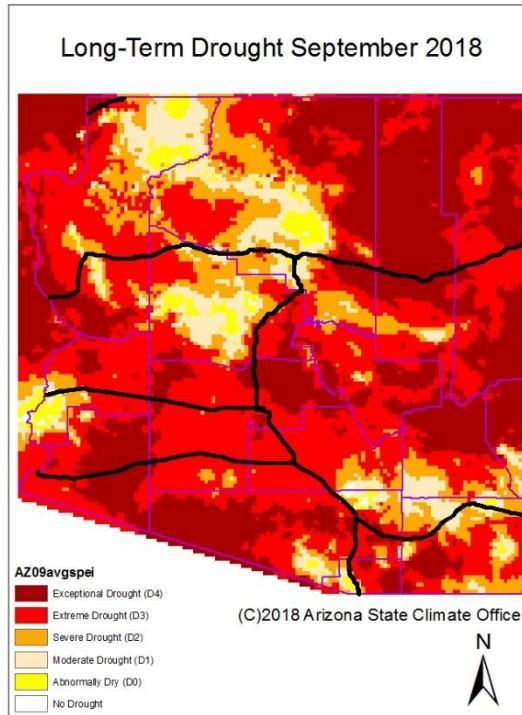
National Drought Monitor Comparison (Short-Term)

Percent of State in Drought

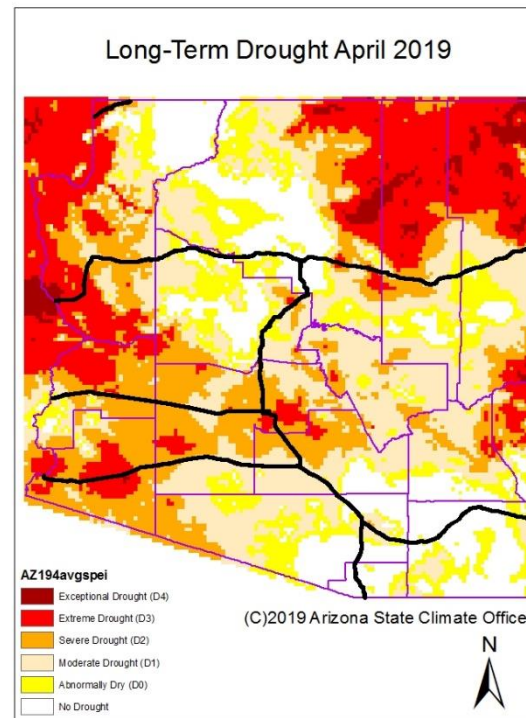
Category	Oct 2, 2018	Apr 30, 2019	Oct 1, 2019
No Drought	0%	83%	5%
Abnormally Dry	13%	12%	14%
Moderate Drought	42%	4.6%	55%
Severe Drought	25%	0%	26%
Extreme Drought	57%	0%	0%
Exceptional Drought	9%	0%	0%

Long Term Drought Status – Gridded

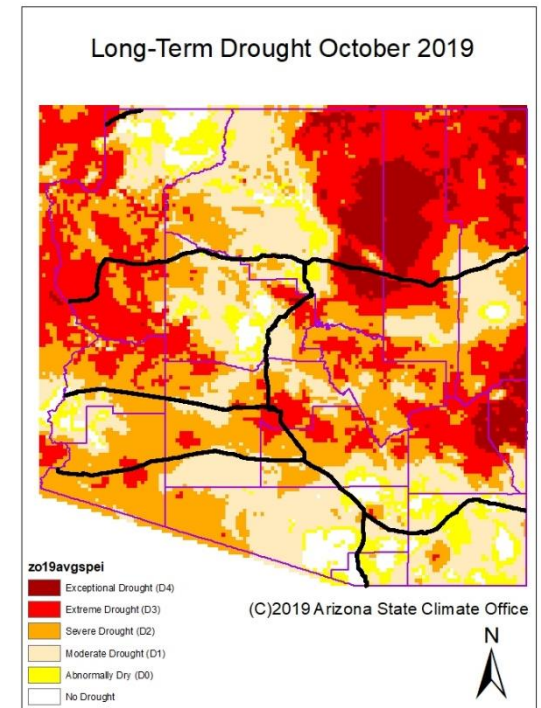
September 2018



April 2019



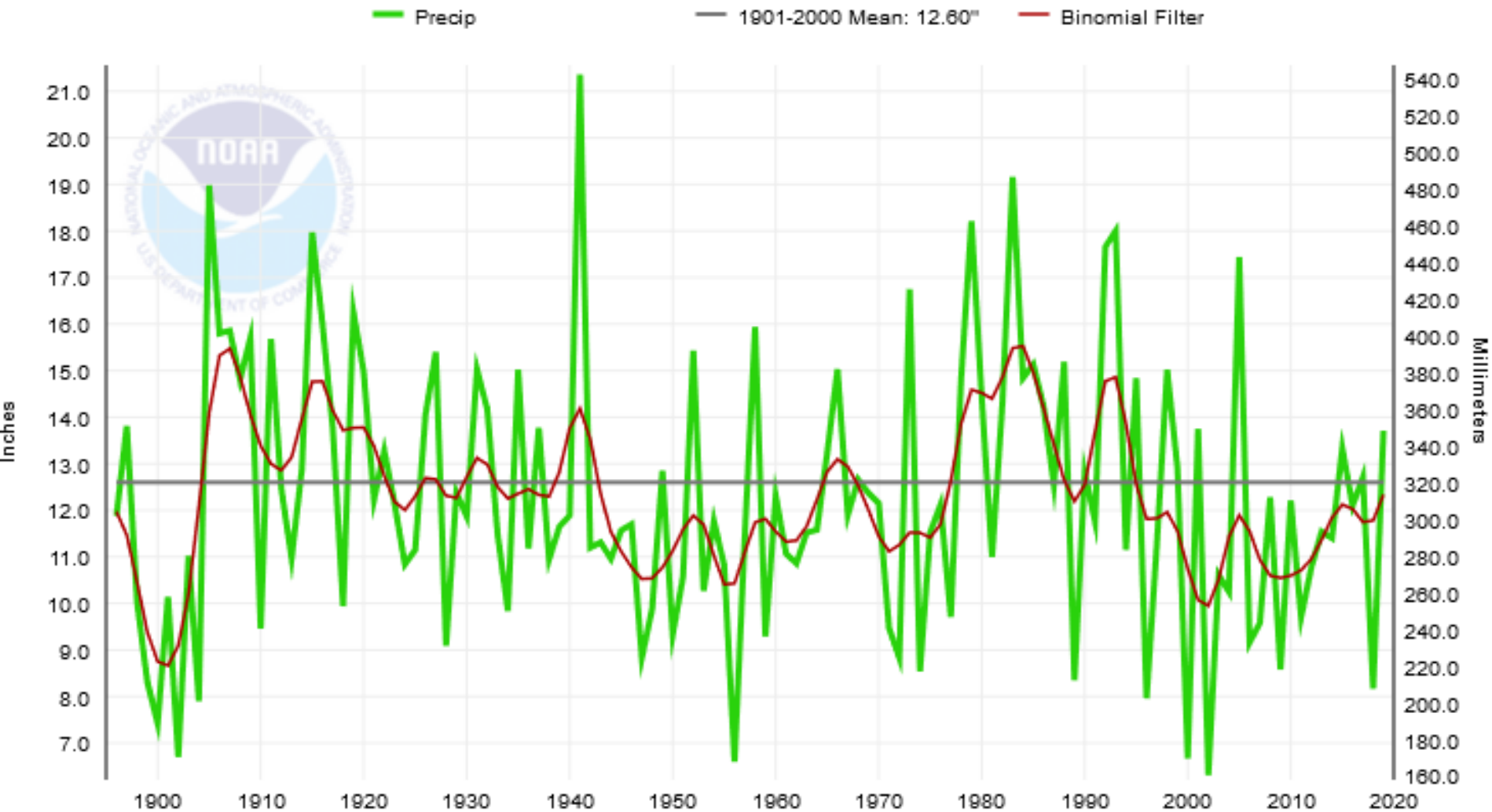
October 2019



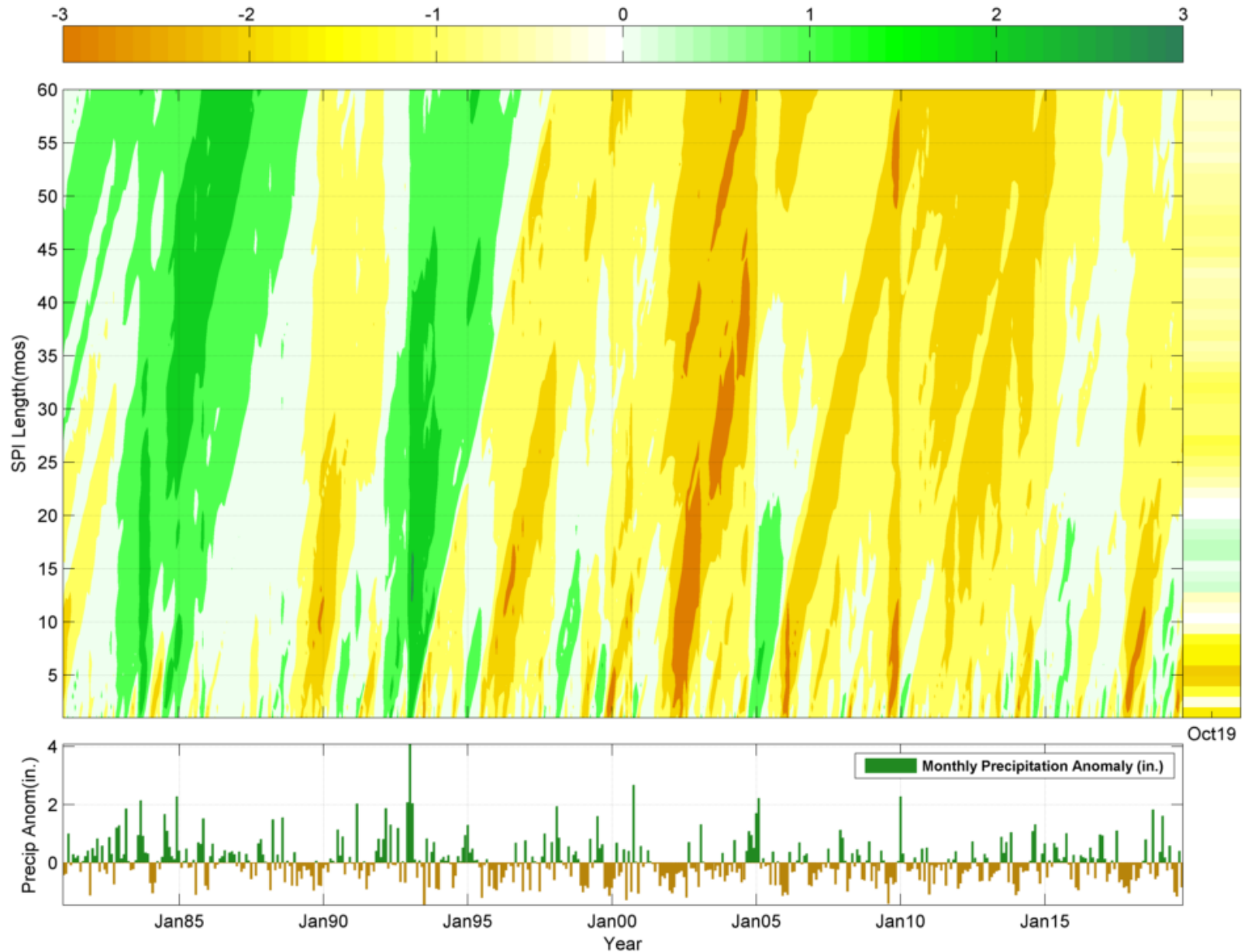
Based on average of 24-, 36-, and 48-month
SPI & SPEI

Long-Term WY Statewide Precipitation

Arizona, Precipitation, October-September

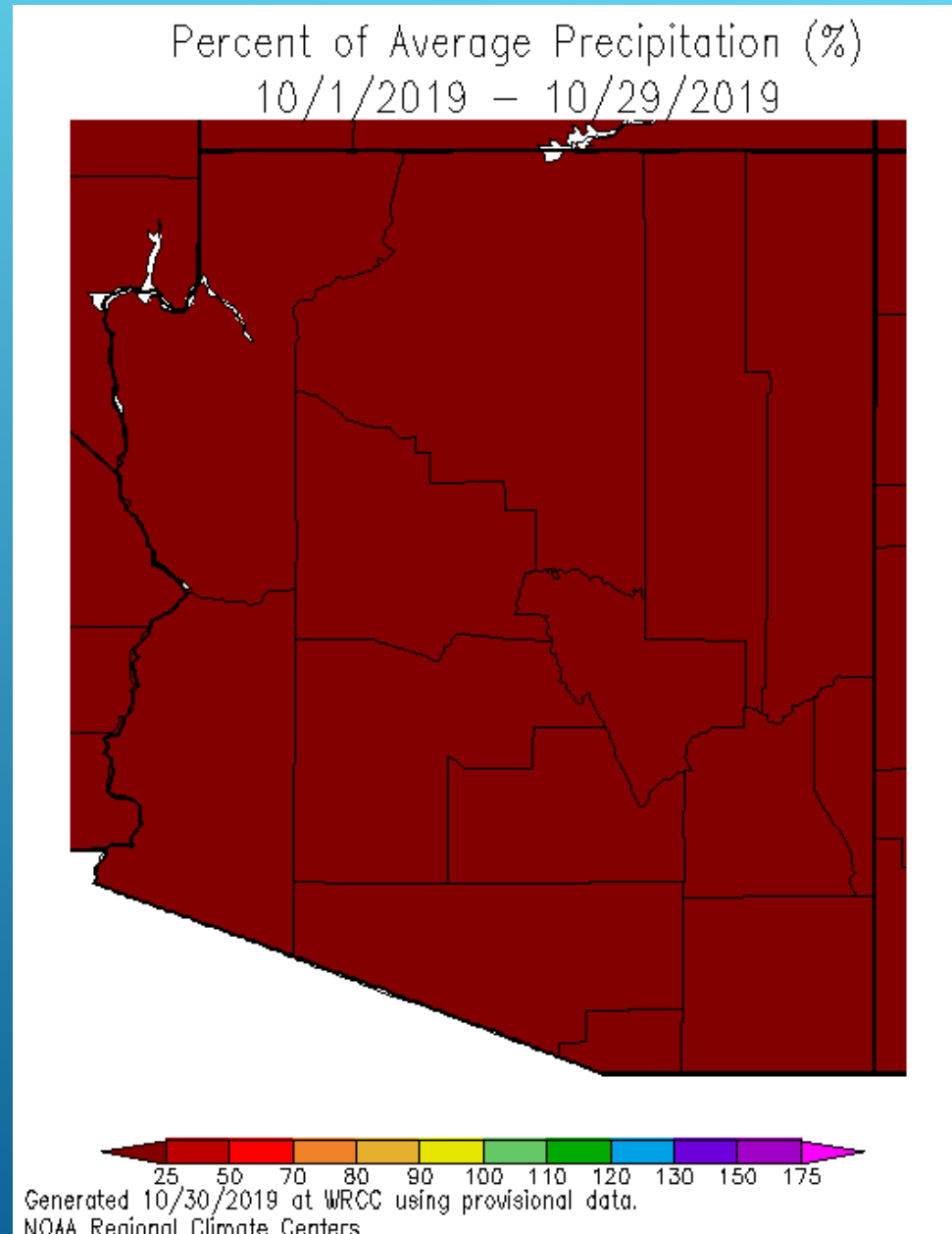


Arizona - Standardized Precipitation Index - (1-60 mos, Jan1981 - Oct2019)



Water Year Precipitation Percent of Average

WY 2020 so far



Questions ?

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<http://azclimate.asu.edu>